

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/008539

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B01D53/94 F01N3/28

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B01D F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 984 142 A (TOYOTA JIDOSHA KK) 8 March 2000 (2000-03-08)	1,2,5,9
A	paragraph '0014! - paragraph '0016!; claims; figure 2	3,4,6-8, 10,11
X	US 5 492 679 A (FRANK AMENT ET AL.) 20 February 1996 (1996-02-20)	1
A	column 3, line 35 - column 4, line 2; figures 2,3	2-11
A	WO 01/12320 A (JOHNSON MATTHEY PUBLIC LTD COMP) 22 February 2001 (2001-02-22) claims; figure 1	1-11
A	DE 198 20 828 A (DAIMLERCHRYSLER) 18 November 1999 (1999-11-18) cited in the application claims	1-11
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

13 October 2004

Date of mailing of the international search report

20/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Bogaerts, M

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008539

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 773 354 A (TOYOTA JIDOSHA KK) 14 May 1997 (1997-05-14) cited in the application claims -----	1-11
A	EP 1 033 161 A (DORNIER GMBH) 6 September 2000 (2000-09-06) claims; figures 1,2 -----	1-11
A	EP 1 147 802 A (KEMIRA METALKAT OY) 24 October 2001 (2001-10-24) -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/008539

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0984142	A	08-03-2000	DE 69824847 D1 EP 0984142 A1 JP 3248187 B2 US 6367246 B1 WO 9848153 A1	05-08-2004 08-03-2000 21-01-2002 09-04-2002 29-10-1998
US 5492679	A	20-02-1996	DE 19539728 A1	30-04-1997
WO 0112320	A	22-02-2001	EP 1133355 A1 WO 0112320 A1 US 2004175315 A1 US 6753294 B1	19-09-2001 22-02-2001 09-09-2004 22-06-2004
DE 19820828	A	18-11-1999	DE 19820828 A1 DE 59900369 D1 EP 0957242 A2 JP 3108919 B2 JP 2000027634 A US 6176079 B1	18-11-1999 06-12-2001 17-11-1999 13-11-2000 25-01-2000 23-01-2001
EP 0773354	A	14-05-1997	JP 9133032 A DE 69616235 D1 DE 69616235 T2 EP 0773354 A1 US 5782087 A	20-05-1997 29-11-2001 27-06-2002 14-05-1997 21-07-1998
EP 1033161	A	06-09-2000	DE 19908023 A1 DE 59909112 D1 EP 1033161 A1	31-08-2000 13-05-2004 06-09-2000
EP 1147802	A	24-10-2001	FI 20000854 A EP 1147802 A1 US 2002013226 A1	11-10-2001 24-10-2001 31-01-2002